

bioMérieux, Inc. 3601 La Jolla Village Drive, San Diego, CA 92161-0601
 Tel: 619 594-1400 Fax: 619 594-1401
 www.biomerieux.com

Thermal Stability of Pellets over wide range of temperature

CT Amplification after 10 minutes at Each Temperature (10 µL HPA)

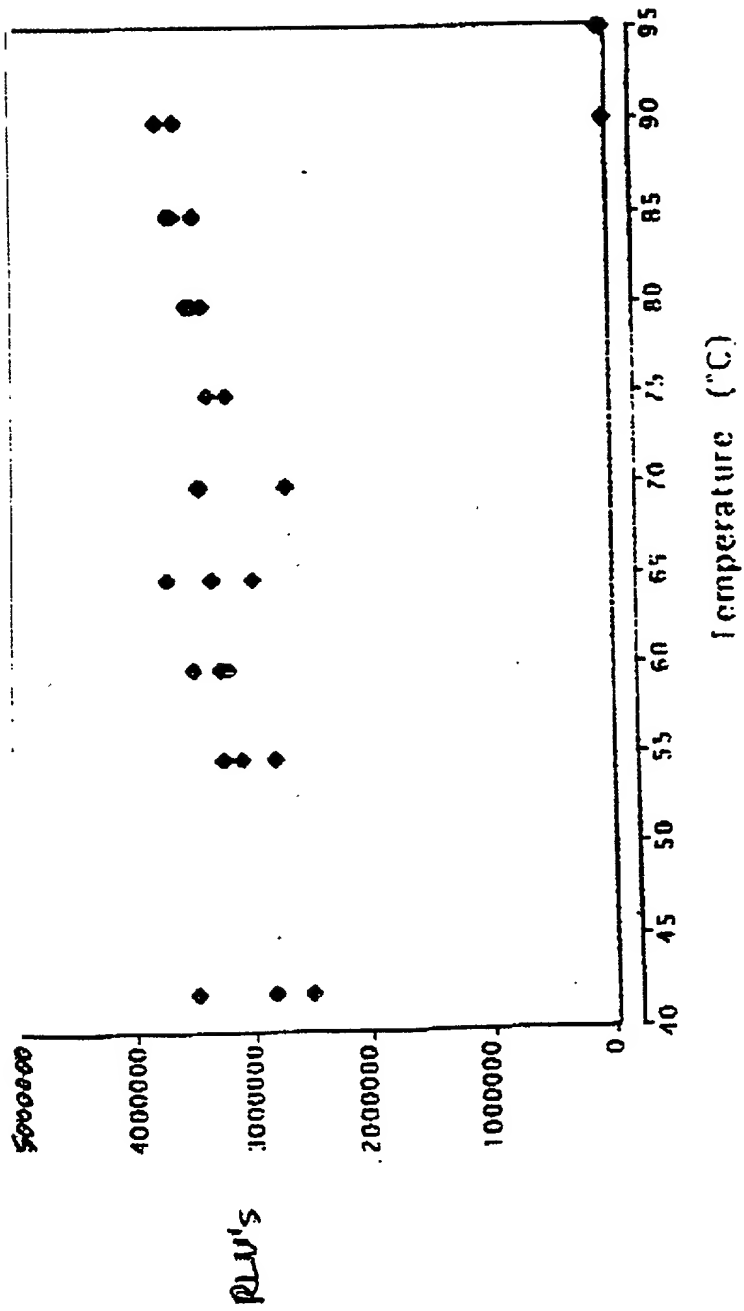


FIG. 1



bioMérieux

Rockland R4D

bioMérieux, 3501 La Jolla Village Drive, San Diego, CA 92108-4103
 Tel: 619 594-1414 Fax: 619 594-1415 Email: info@bioMérieux.com

Transcription Mediated Amplification

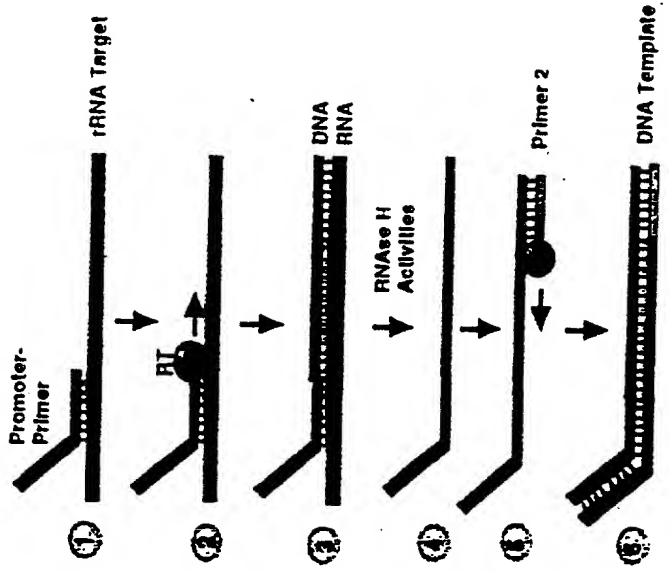
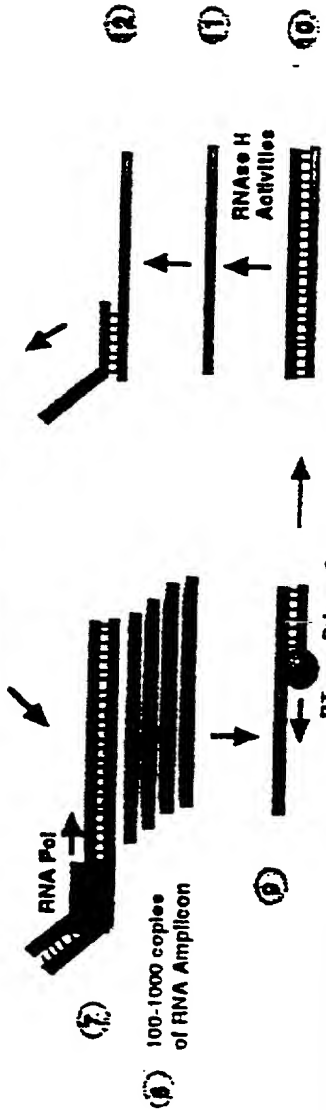


Fig. 2



bioMérieux

Rockland R&D

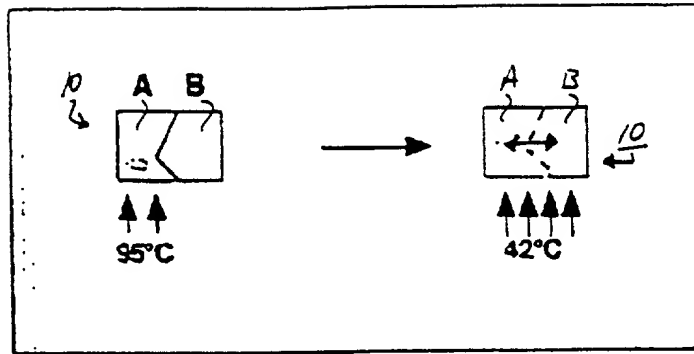


FIG. 3A

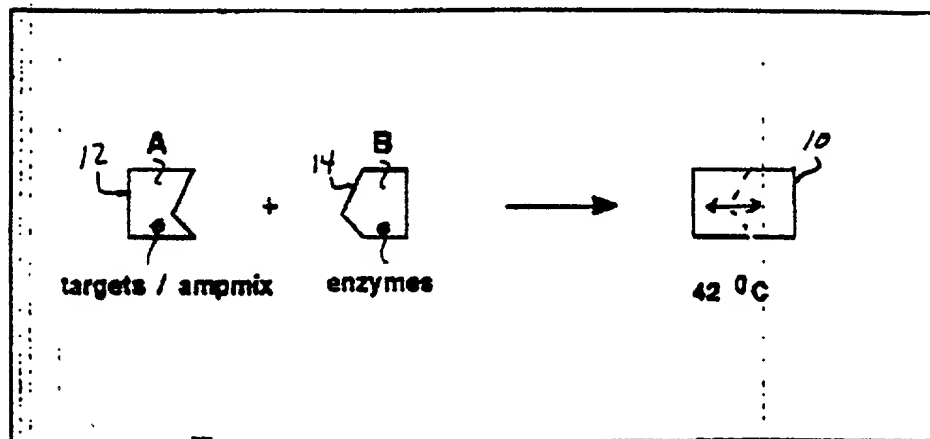


FIG. 3B

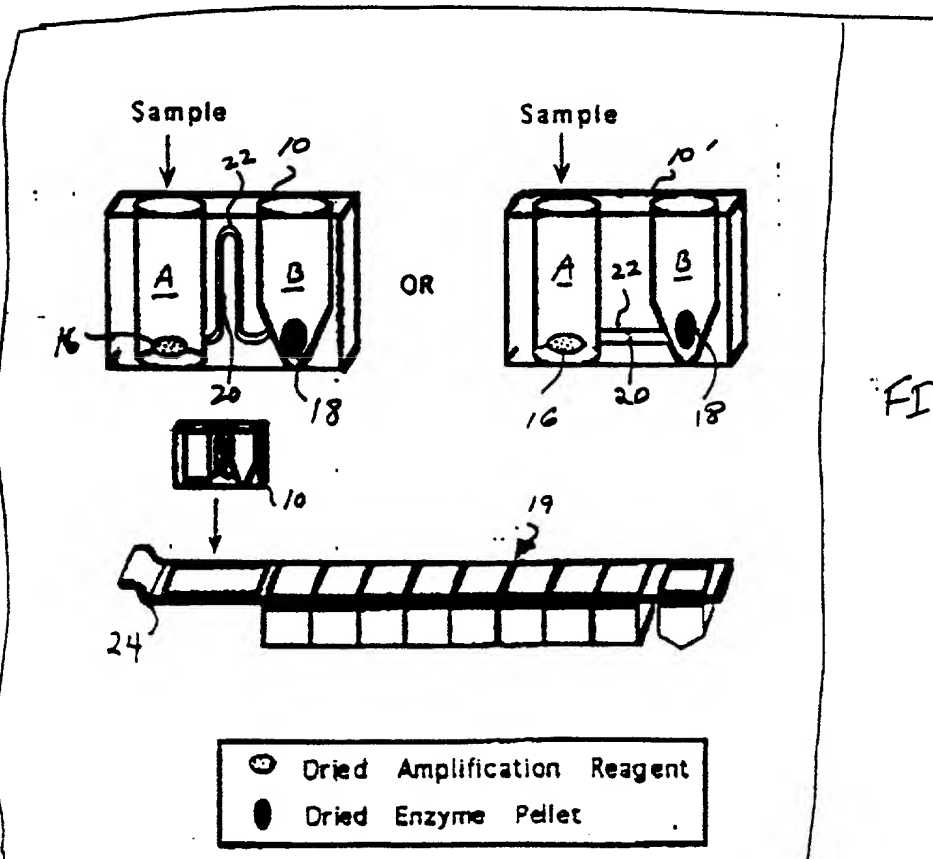


FIG. 3C

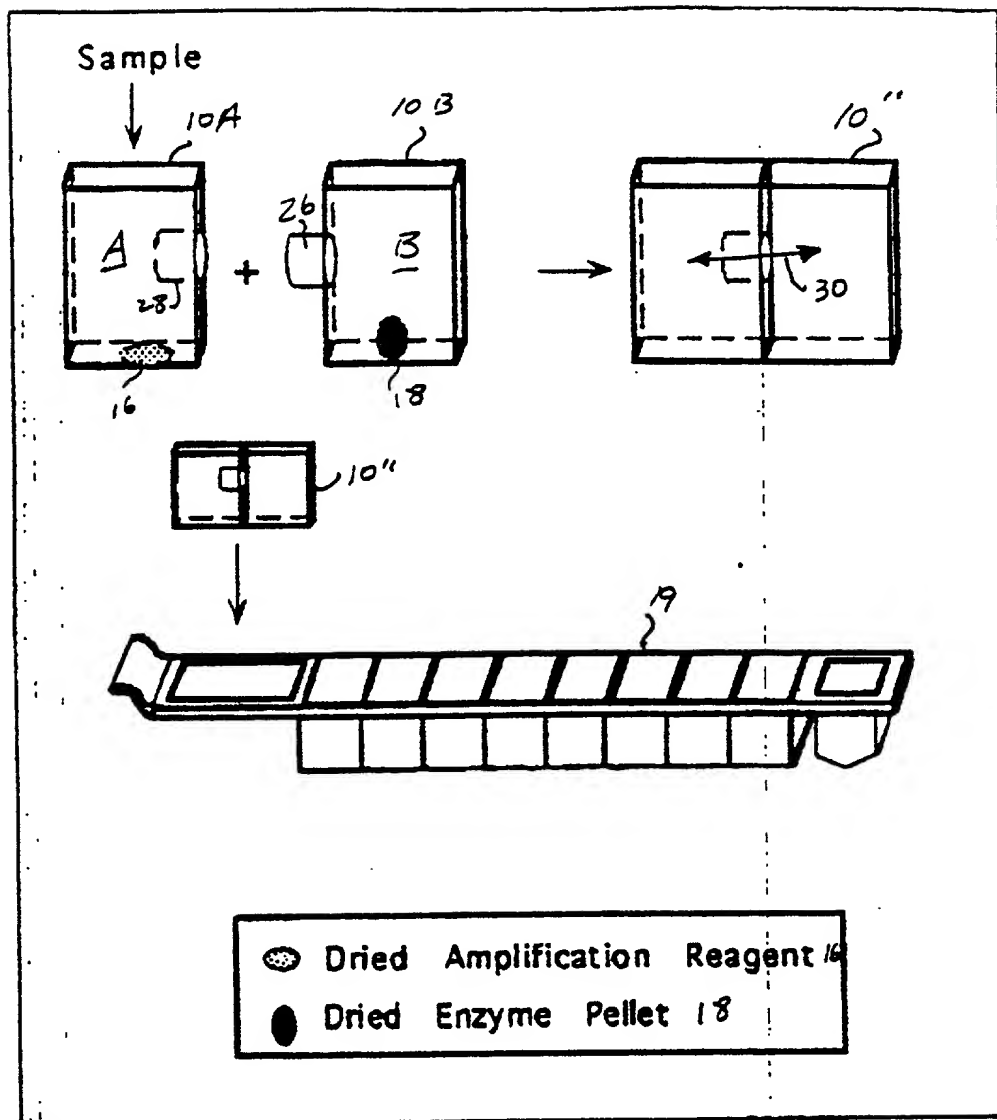
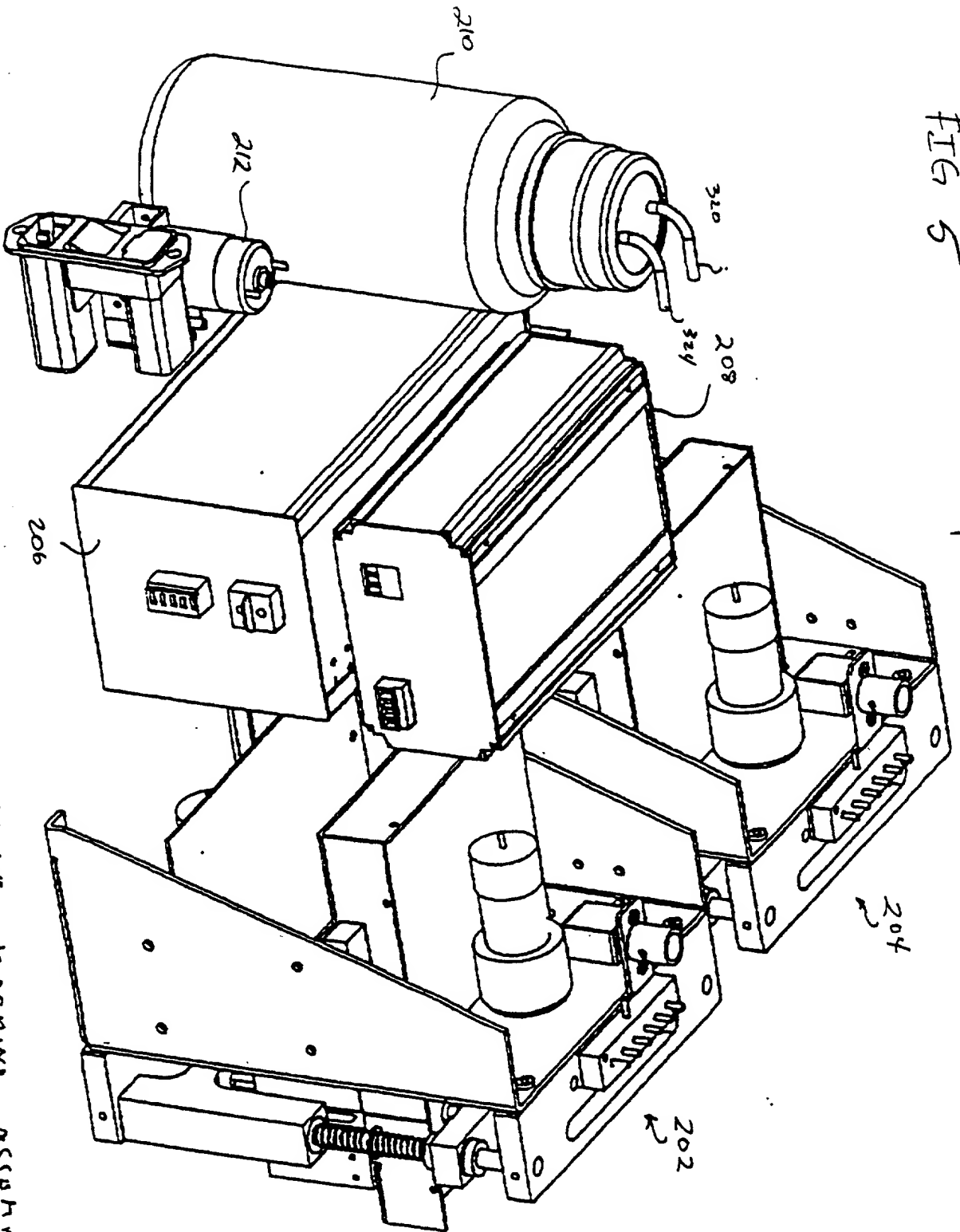


FIG. 4

FIG 5



WHOLE MACHINE ASSEMBLY

200

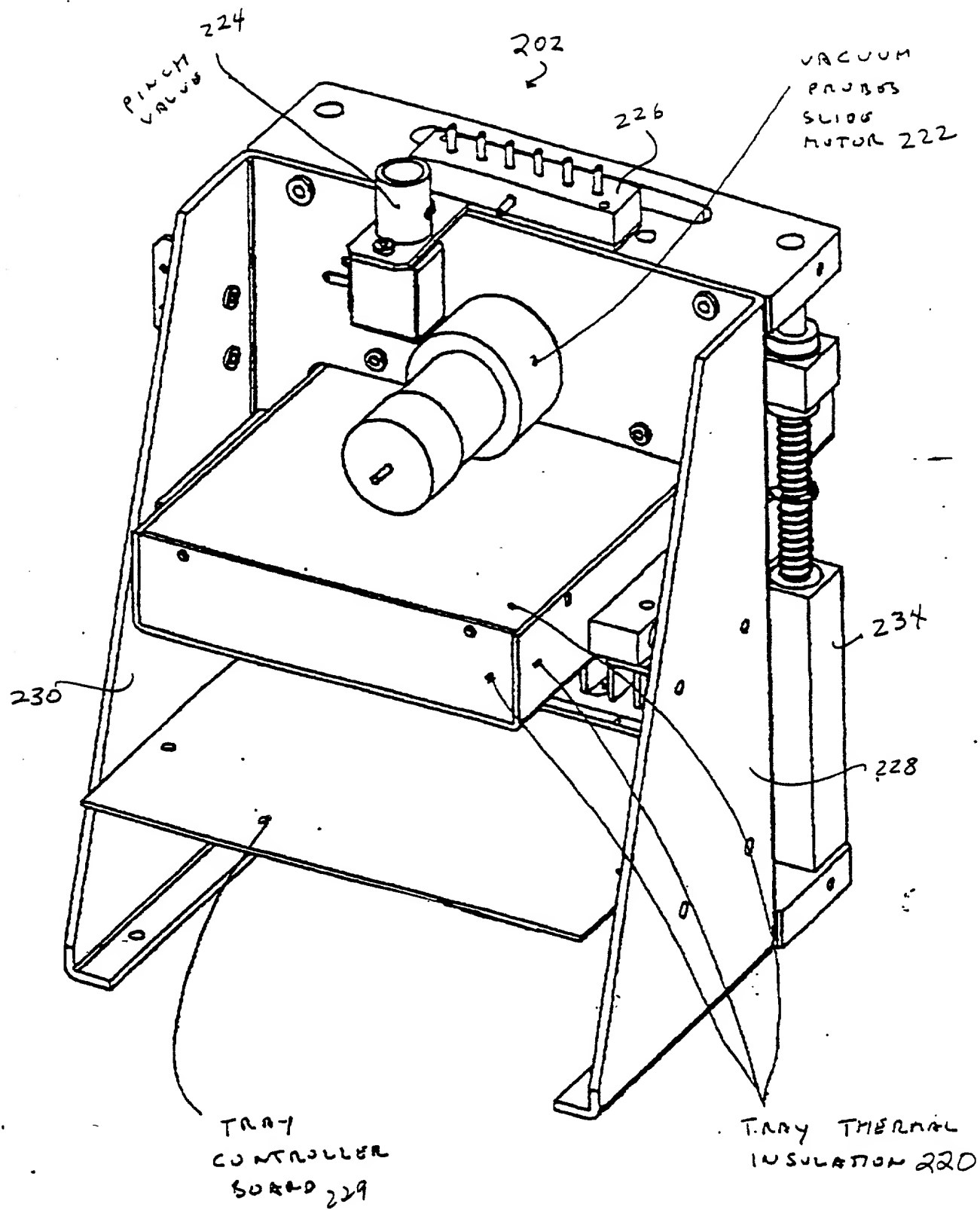


FIG. 6

FIG. 7

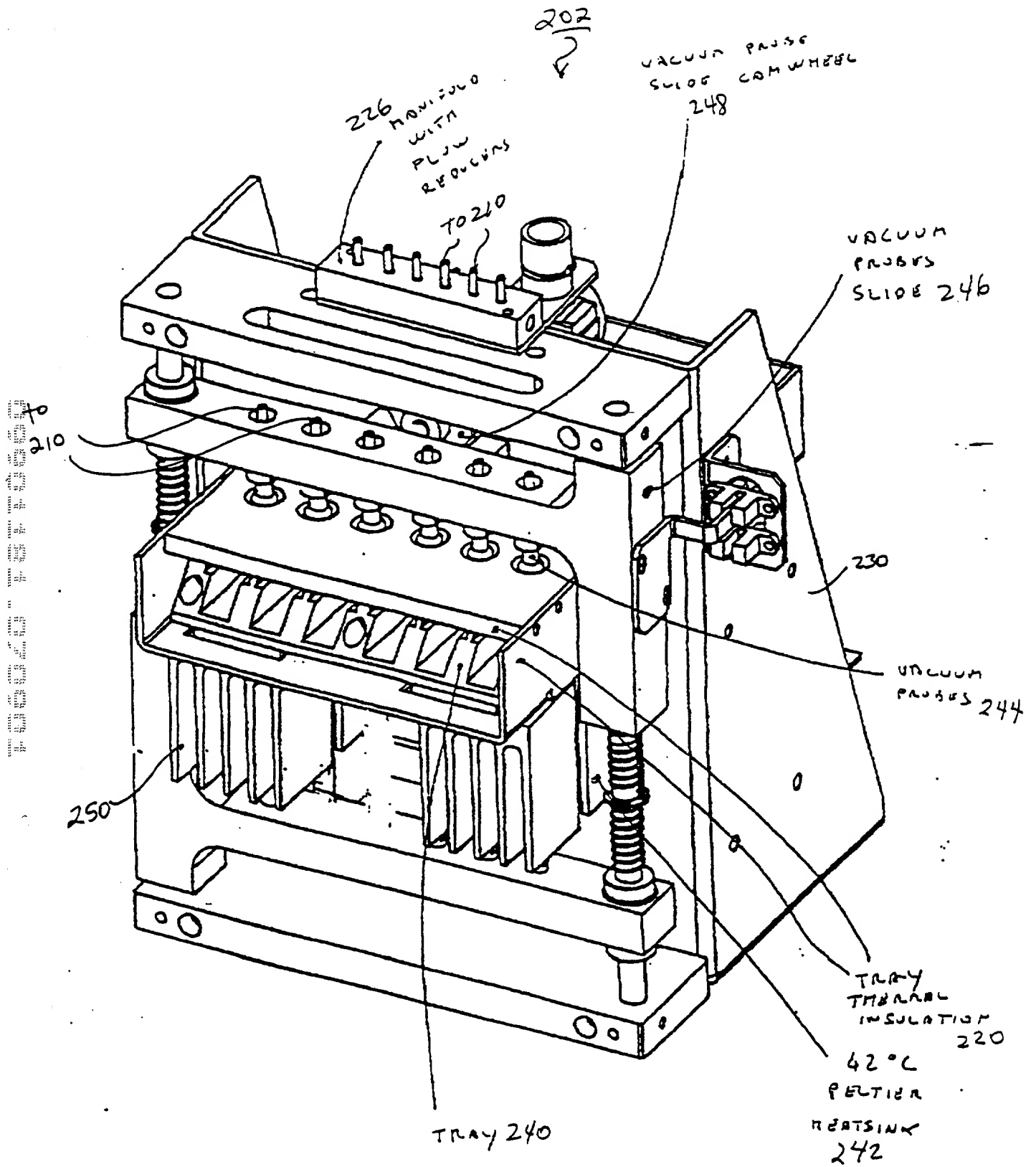


FIG. 7

FIG. 8

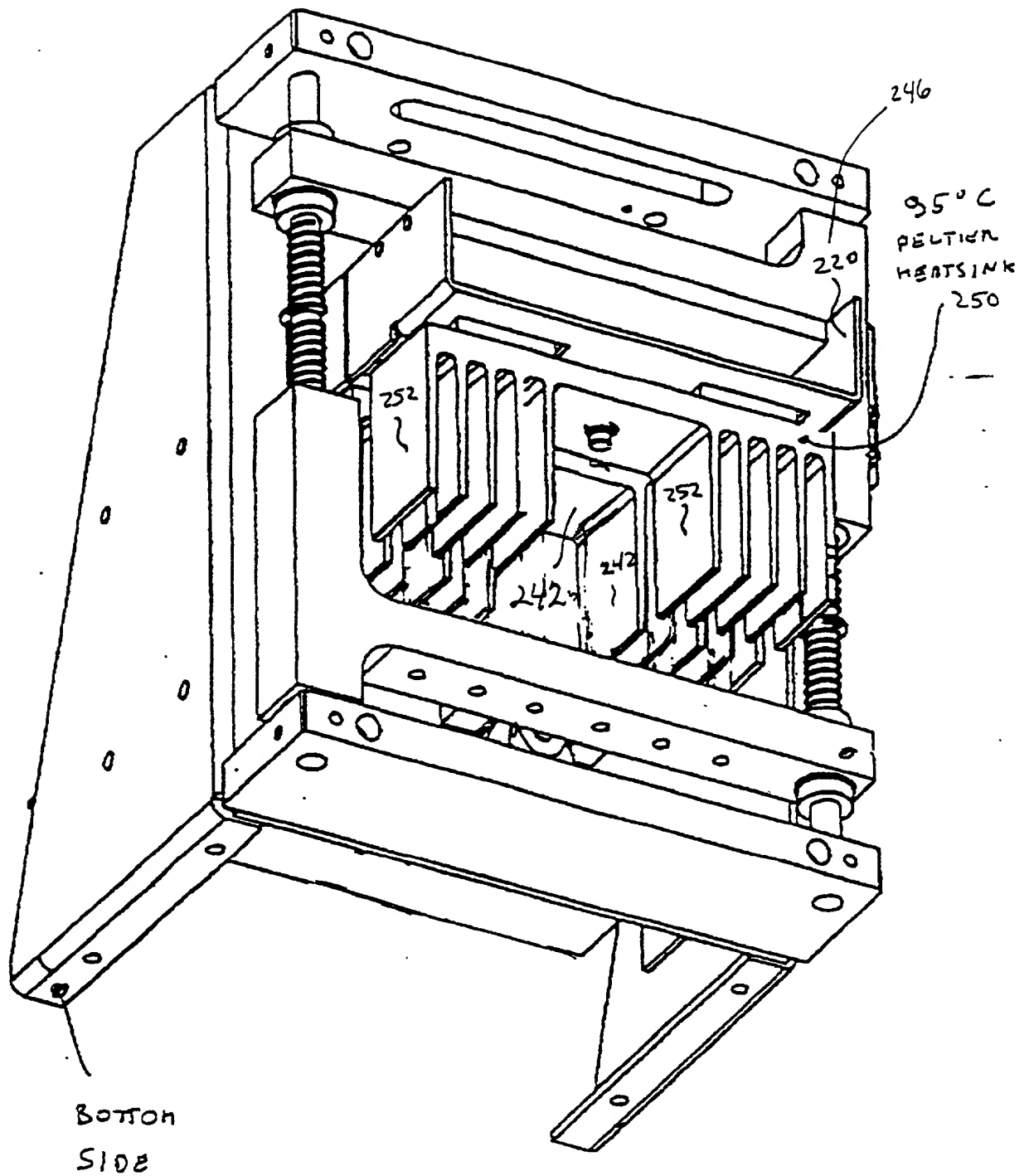
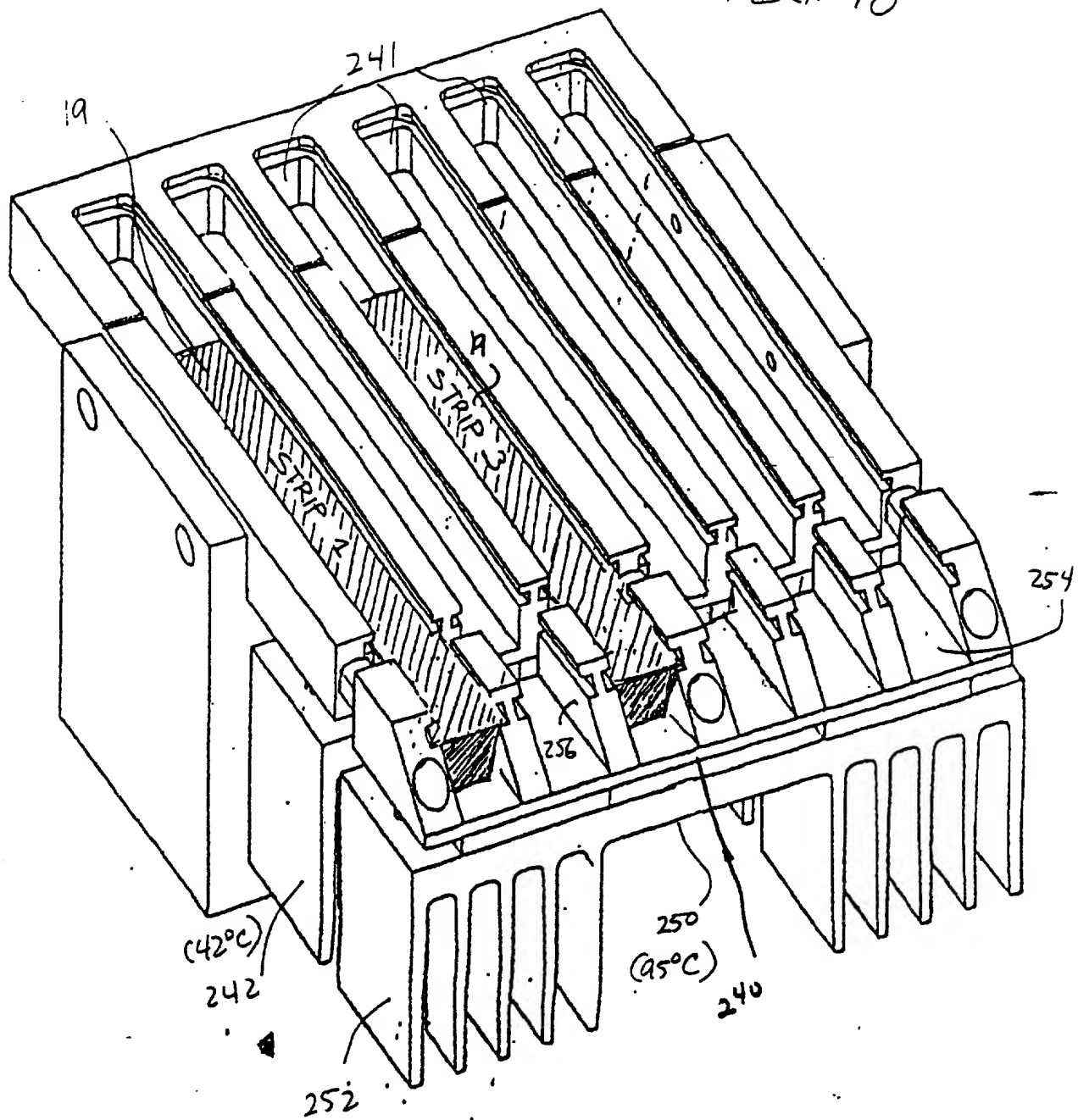


FIG. 10



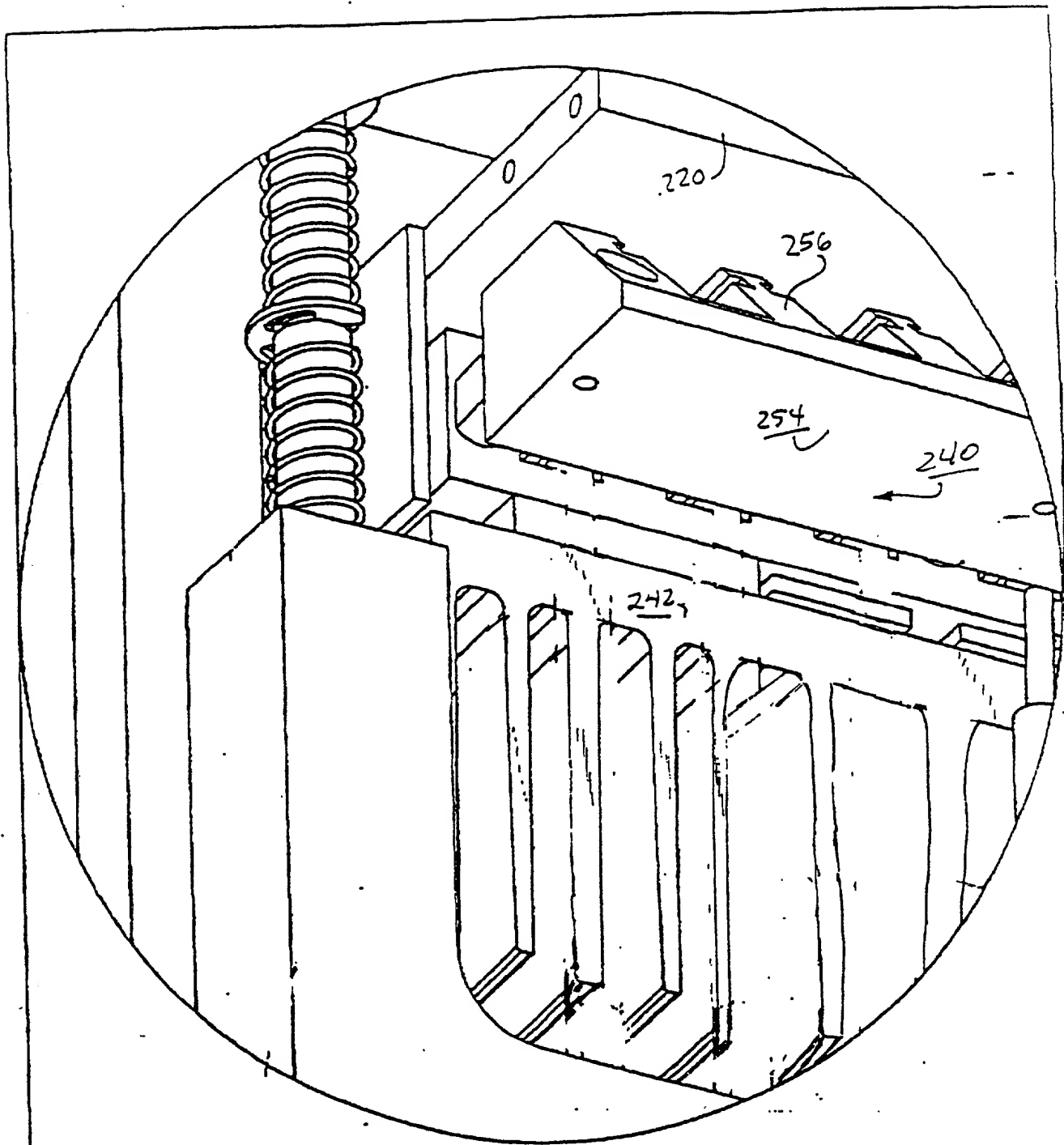


FIG. 11

APPLICATION STATION (BLOCKS DIAGRAM)

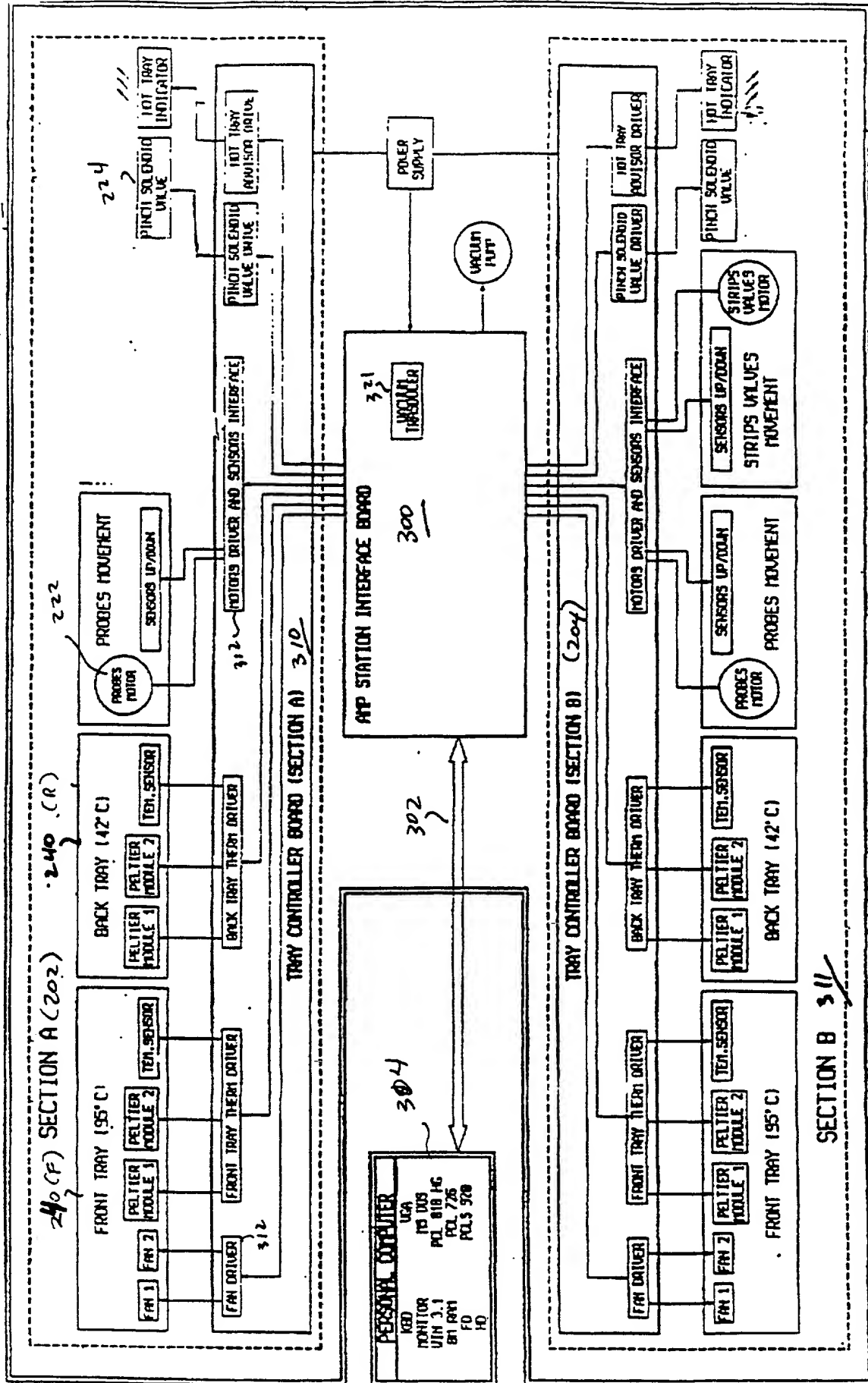


FIG 12

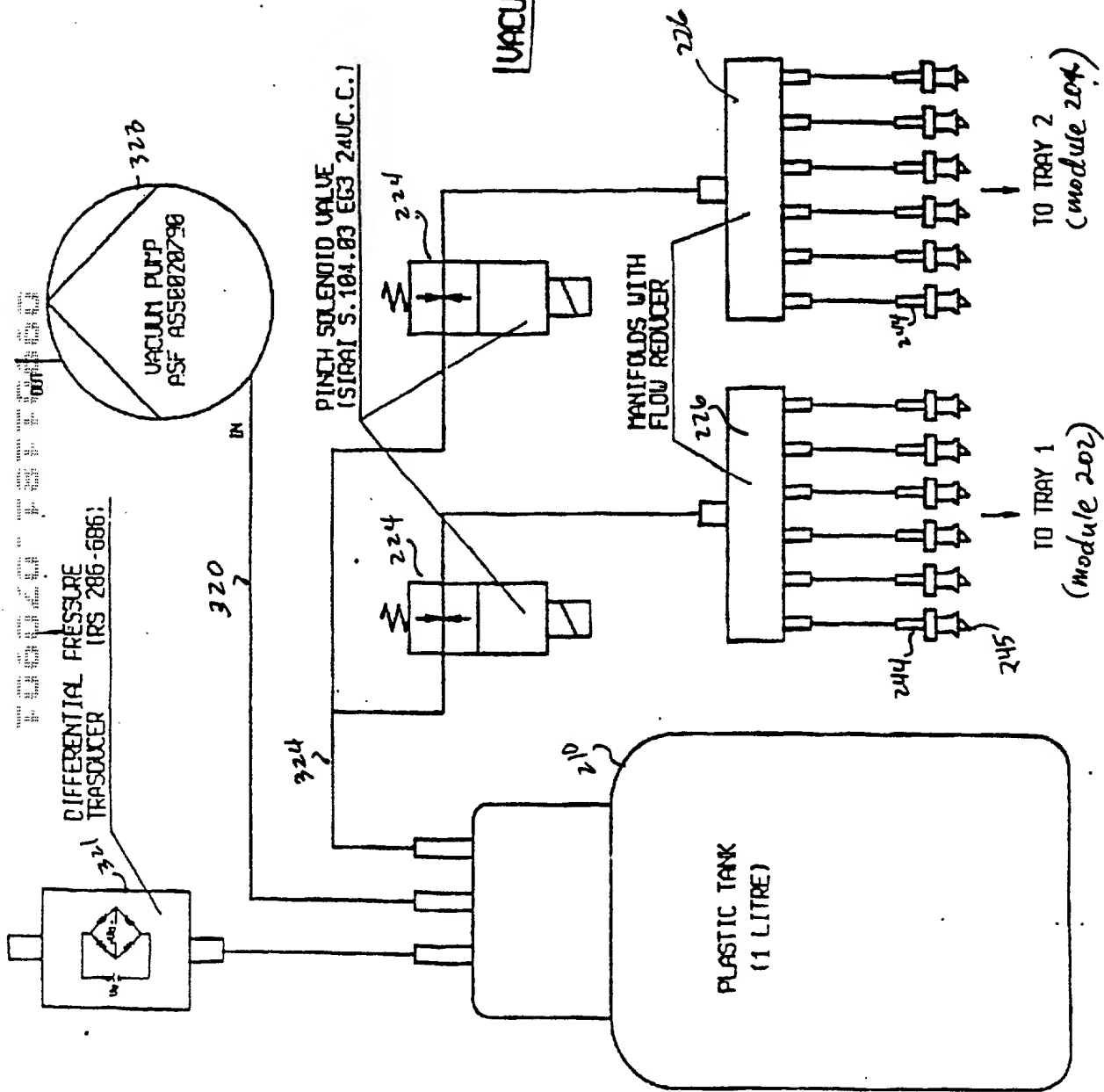


Fig. 13

320

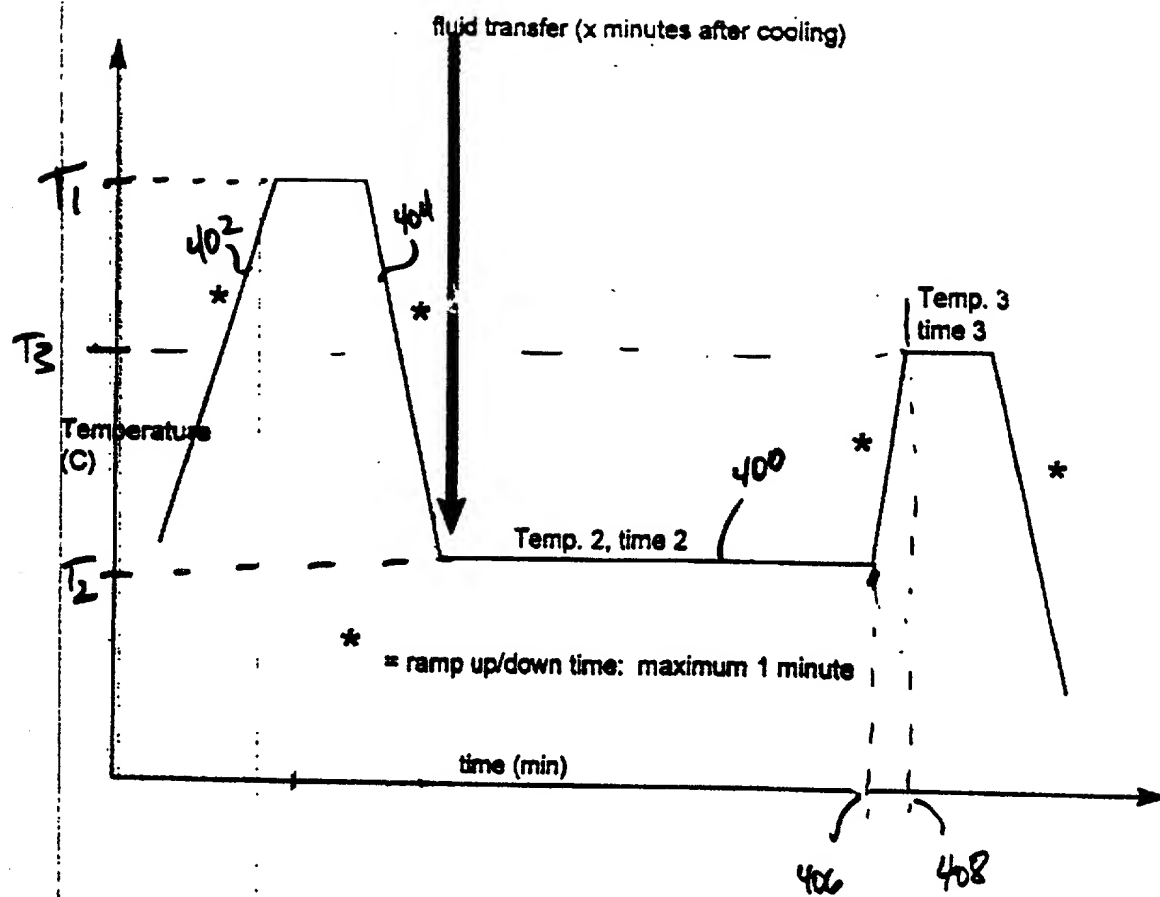


FIG. 14

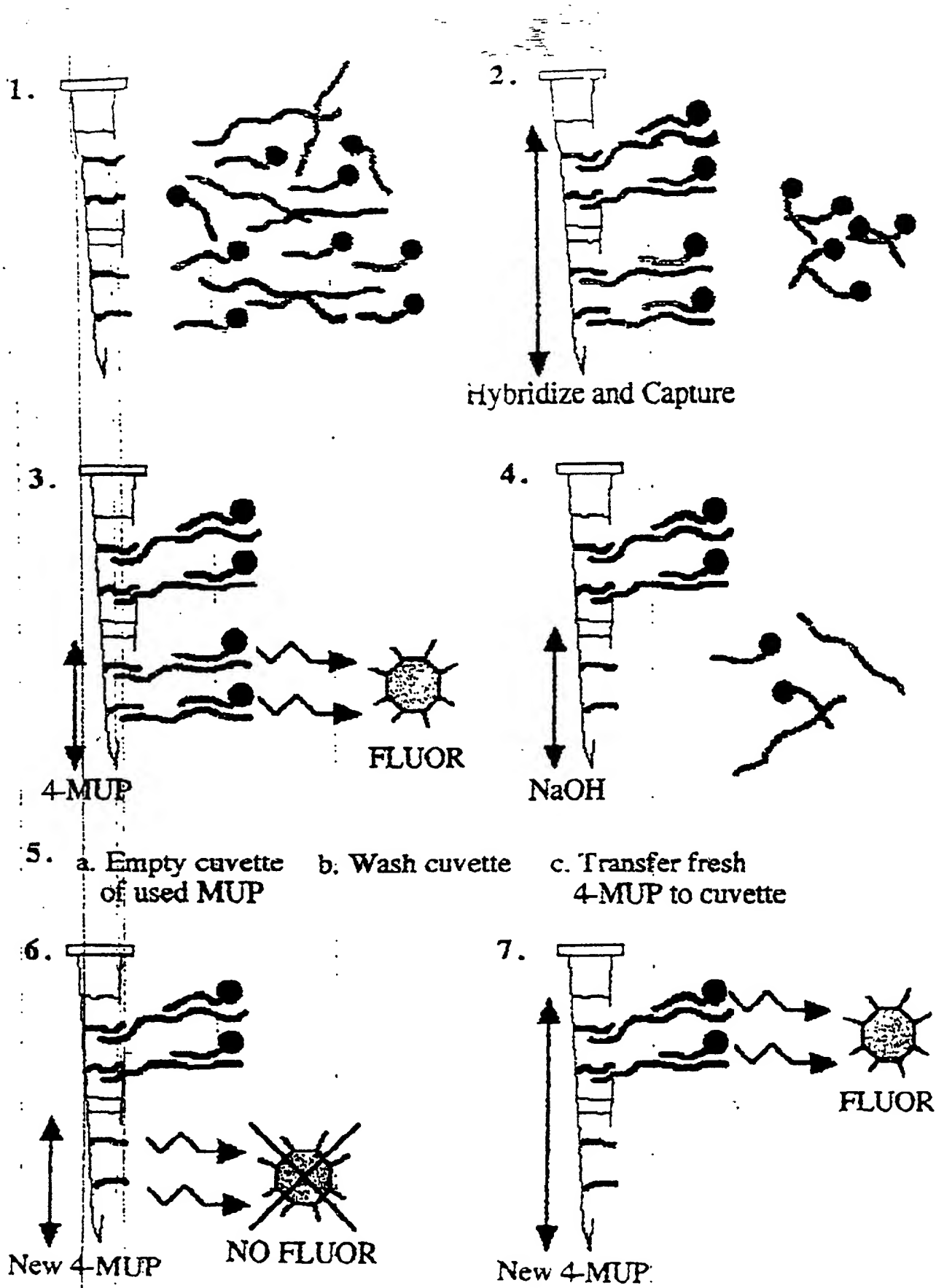


Fig 15

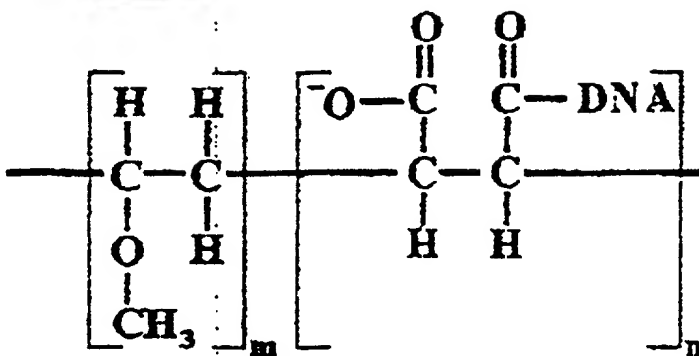
[illegible]

Fig. 16

MULTIPLEX STRIP CONFIGURATION

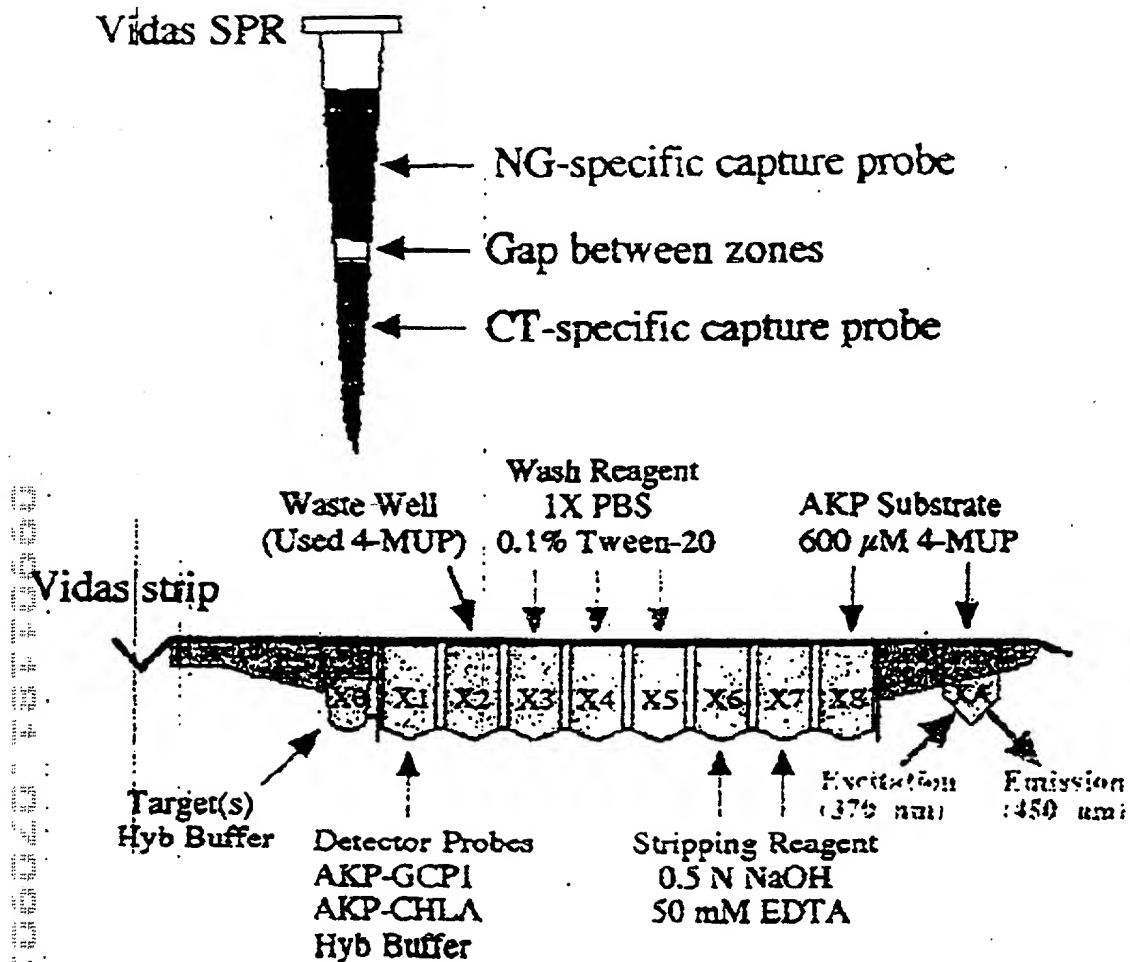


Fig. 17

Test of Multiplex VIDAS Protocol

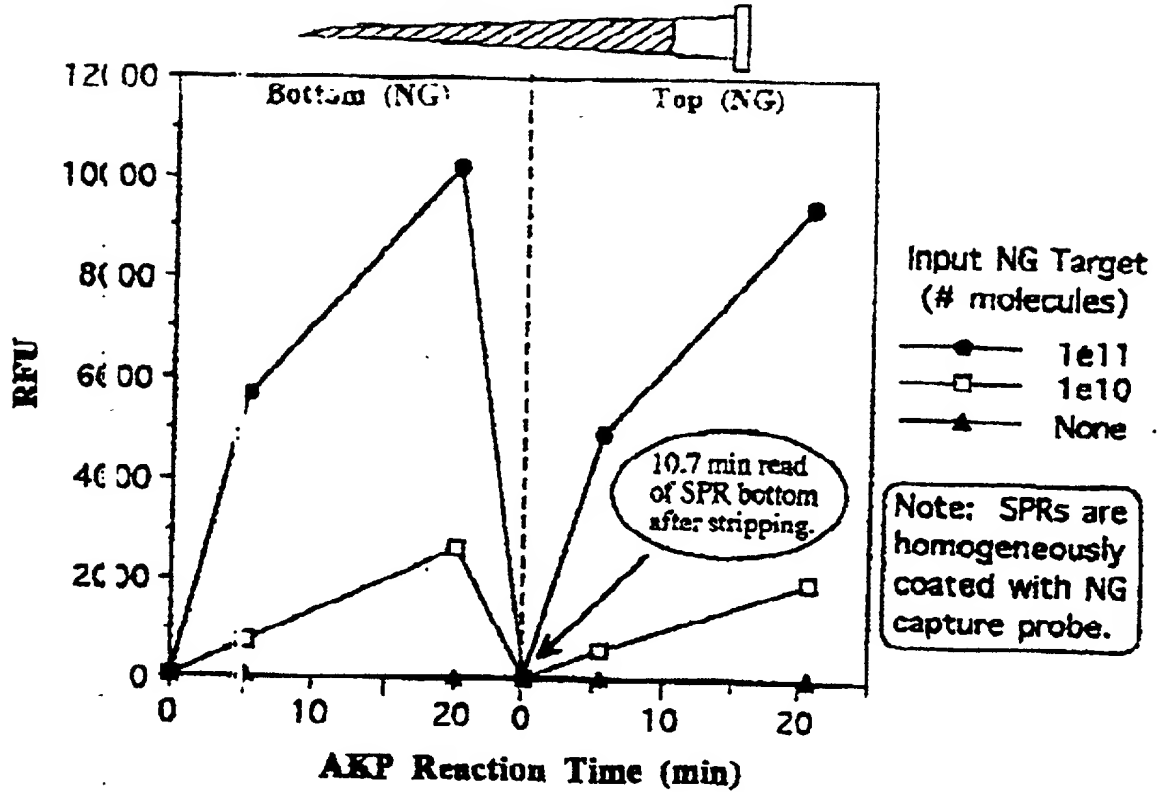


FIG-18

FIG. 19 A. Dose Response Multiplex Detection of CT and NG

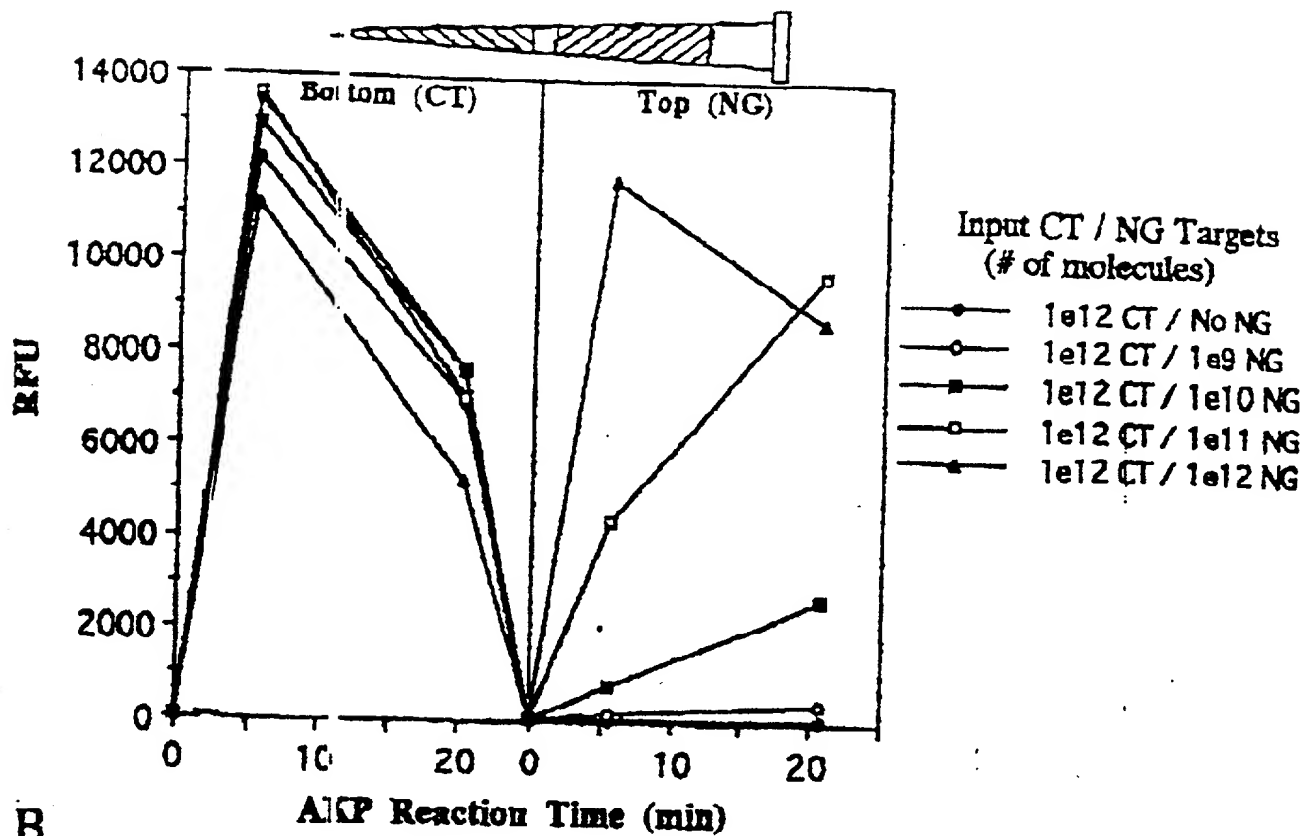
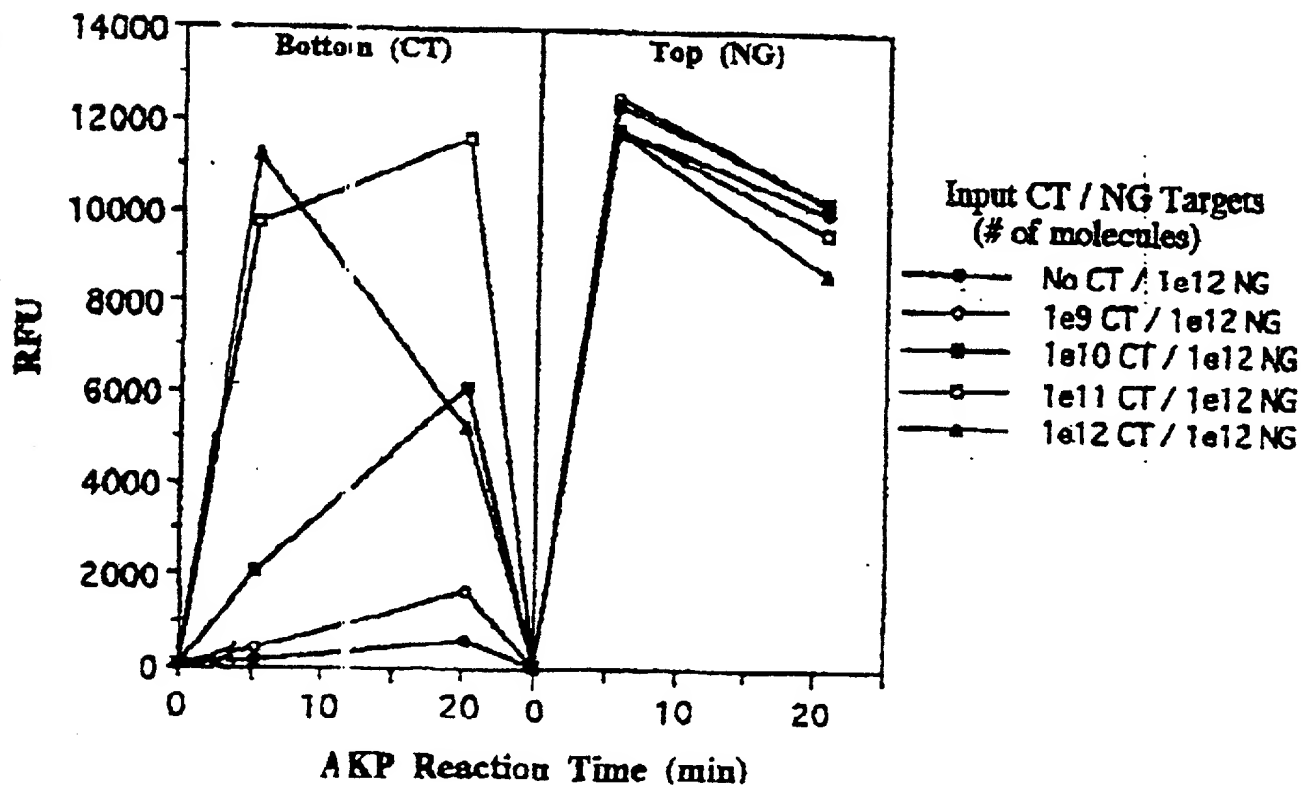


FIG. 19 B.



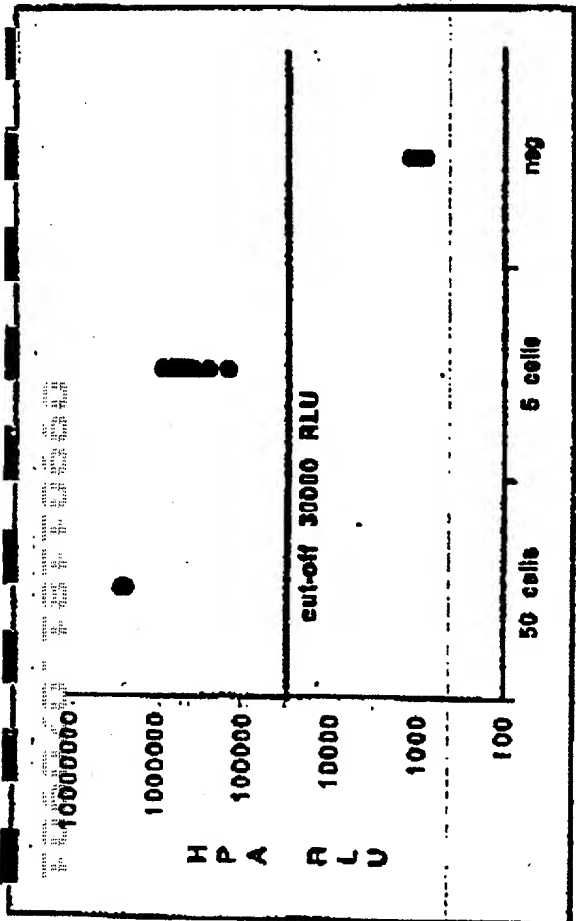


Fig 20A

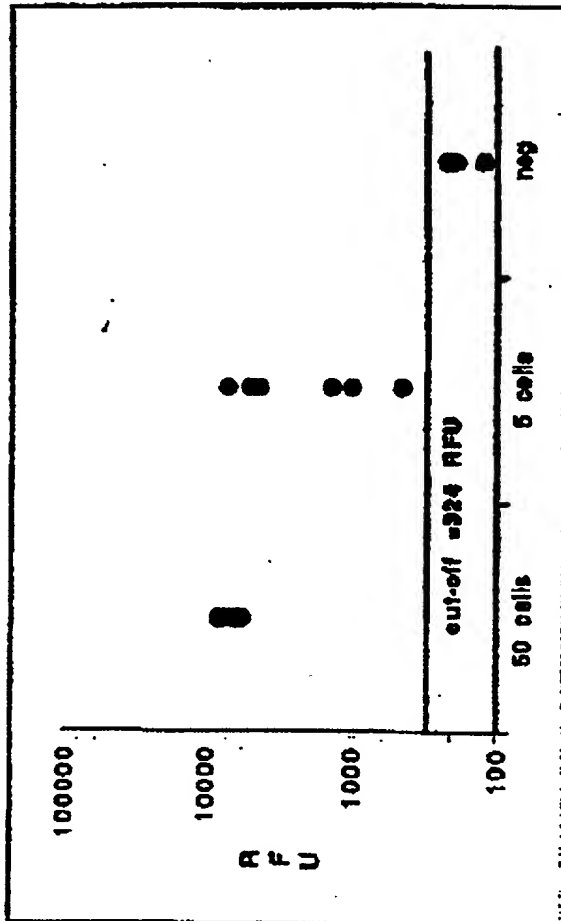
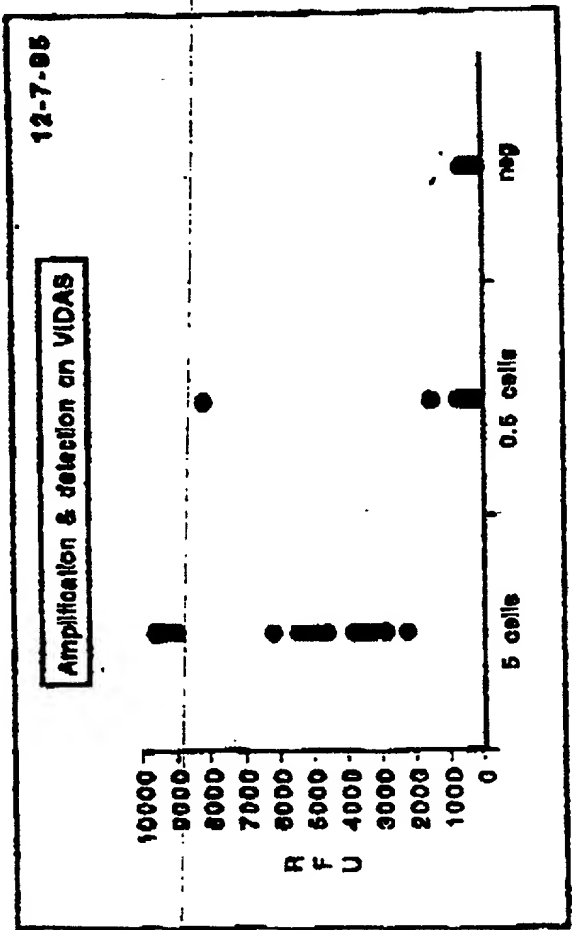


Fig. 20B

bioMérieux

Rockland R&D

Fig. 21



• sample heated off-line in the presence of ampicillin, enzyme transfer by VIDAS

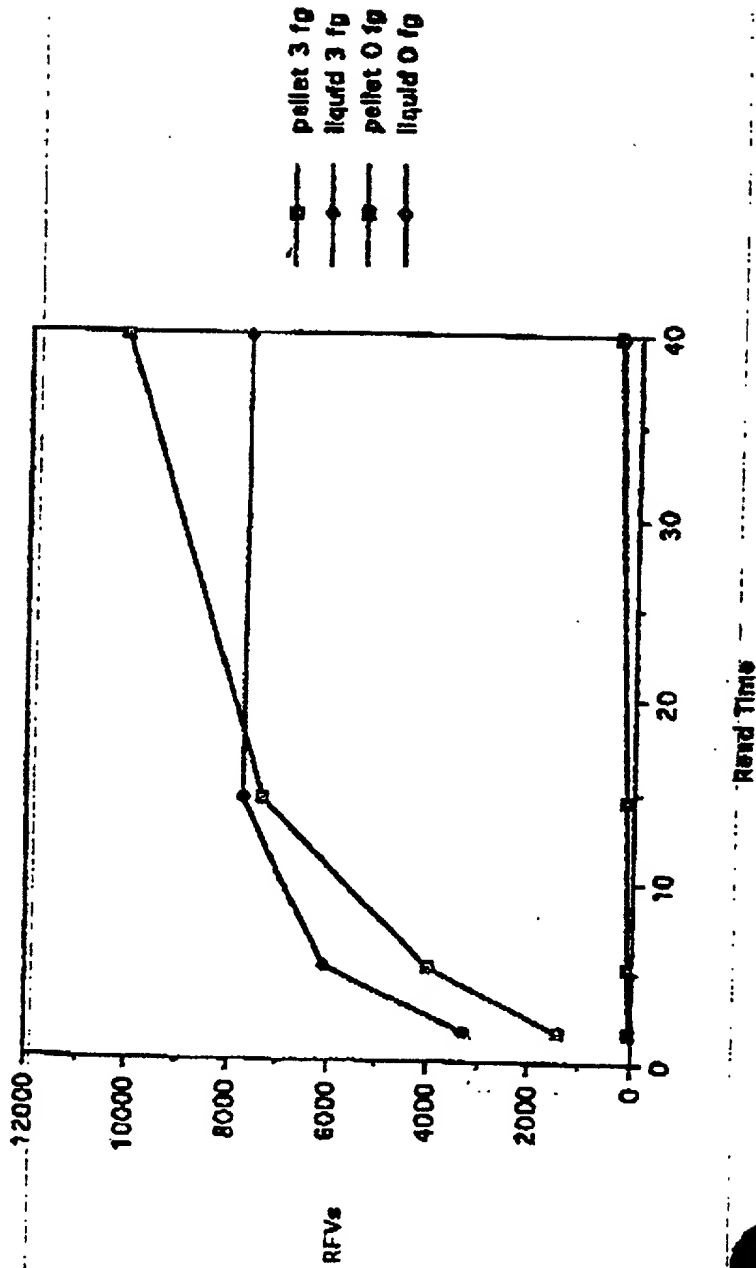


bioMérieux

Rockland R&D

Binary: VIDAS detection

Binary: amplification and detection
on 44°C VIDAS



bioMérieux

Rockland R&D

FIG. 22

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

T	274	T
T	203	T
C	186	A
C	287	T
T	272	T
T	107	A
T	211	T
C	109	A
C	989	C
C	241	T
B	018	B
C	218	C
C	980	C
F	228	T
C	085	O
C	342	C
C	301	T
T	271	T
C	891	C
T	224	T

```
F(AND(W23>40,W23<65,X23>55,X23<75,Y23>4,Z23>4,A23>0,AC23>9),"YES","NO")
```

Run	pH	Tm (°C)	5'-Dimer (%)	3'-Dimer (%)	5'-Dimer (°C)	3'-Dimer (°C)	Driver (°C)	Heat/mole	Heat/mole	Heat/mole	2 parameters	
											3' End AG	Chaper 7
Run1	78.9	78.2	-3.1	-6.8	-6.6	-0.5	-13.0	MD				
Run2	80.8	79.8	none	-2.6	-3.6	1.1	-7.0	MD				
Run3	81.8	82.9	none	none	-10.0	1.7	-8.0	MD				
Run4	84.7	85.3	none	-1.3	-4.8	1.2	-8.0	MD				
Run5	86.1	86.8	none	none	-5.9	1.2	-9.5	MD				
Run6	88.1	88.8	-3.1	-9.5	-3.6	1.7	-9.5	MD				
Run7	91.0	91.7	none	-3.1	-10.1	none	-7.0	MD				
Run8	93.6	94.3	-4.8	-1.9	-5.3	0.3	-8.5	MD				
Run9	96.1	96.8	-5.3	-1.6	-5.3	none	-7.0	MD				
Run10	98.1	98.8	none	-1.0	-3.6	none	-7.0	YES				
Run11	100.1	100.8	none	-1.6	-6.3	none	-8.5	MD				
Run12	102.1	102.8	none	-1.9	-8.8	none	-9.5	MD				
Run13	104.1	104.8	-3.6	-1.6	-11.6	1.7	-8.0	MD				
Run14	106.1	106.8	-1.3	-1.9	-10.1	none	-7.5	MD				
Run15	108.1	108.8	-1.6	-1.6	-9.8	0.7	-5.5	MD				
Run16	110.1	110.8	-1.6	-1.6	-3.6	1.1	-8.5	YES				
Run17	112.1	112.8	-4.7	-4.4	-9.8	-1.5	-10.0	MD				
Run18	114.1	114.8	-3.8	-1.9	-4.7	none	-7.0	MD				
Run19	116.1	116.8	-3.8	none	-5.3	none	-7.0	YES				
Run20	118.1	118.8	-3.1	-3.1	-9.8	1.3	-8.5	MD				
Run21	120.1	120.8	-1.0	-3.1	-5.1	1.0	-9.0	MD				
Run22	122.1	122.8	-9.3	-6.3	-10.3	-2.2	-11.0	MD				
Run23	124.1	124.8	-9.5	-1.3	-8.5	0.5	-8.0	MD				
Run24	126.1	126.8	none	none	-4.7	1.9	-8.5	YES				
Run25	128.1	128.8	-1.6	-1.6	-4.2	none	-9.5	MD				
Run26	130.1	130.8	-3.1	-3.5	-9.8	-0.3	-10.0	MD				
Run27	132.1	132.8	none	-1.0	-9.6	0.9	-9.5	MD				
Run28	134.1	134.8	-1.6	-13.2	-13.5	-0.6	-8.0	MD				
Run29	136.1	136.8	-1.6	-1.5	-3.6	1.1	-7.0	YES				
Run30	138.1	138.8	-1.3	-3.6	-5.7	-1.1	-6.5	MD				
Run31	140.1	140.8	-8.1	-8.1	-8.1	-2.9	-9.5	MD				
Run32	142.1	142.8	none	none	-3.6	none	-5.5	YES				
Run33	144.1	144.8	-1.9	-1.5	-3.5	none	-7.0	YES				
Run34	146.1	146.8	-1.9	-1.9	-9.8	-2.1	-9.5	MD				
Run35	148.1	148.8	none	none	-13.5	-0.8	-8.5	MD				
Run36	150.1	150.8	none	-1.3	-13.5	0.8	-8.5	MD				

5' -gggagcgaaatgttagggcacactcatgggtgagcaagtccttctgtaaaggctgattgtcagggctgattgtacaagcatgacgaccaga-3',
3' -ccctcgctttacaatcccgtgtgattaccactctgttcagaaagacattccccgactacagtcctgcataaactgtttcgtactgtctggtct-5',

RAN16 primer: 5'-AgCgAATgTTAgggCACACTC-3', 5'-TAAgggCTgATgTCAGgCGTA-3' RAN21 AMVE-probe
 TARGET: 5'-gggAgCgAATgTTAgggCACACTCATgggTgAgCAAgtCTTTCTgTAAgggCTgATgTCAGgCGTATTgACAAGCATgACgACCAgA-3', 3'-AACTgTTCgTACTgCTggtCTCT
 RAN33 AKP-probe: 5'-ATgggTgAgCAAgtCTTTCTg-3'

AgAgggATATCACTCAgCATAATTAA-5'
 (T7 promoter / RAN19 primer)

(T3 promoter)

5' - GCAATTAACCTCACTAAGGGAGCgAATgTTAgggCACACTCATgggTgAgCAAGTC-3' (T3 promoter)
3' - gTACCCACTCgTTTCAGAAAGACATTTCCgACTACAGTCCgCATAACTgTTTCgTACTgCTgTCT-5'

OLIGOS TO ORDER:

5'-AGC gAA TgT TAG ggc ACA CTC-3'
 RAN16 TMA primer:
 5'-aminolink-TAA ggg CTg ATg TCA ggc gTA-3'
 RAN21 AMVE-probe:
 5'-aminolink-ATg ggt gAg CAA gTC TTT CTg-3'
 RAN33 AKP-probe:
 5'-AAT TTA ATA CgA CTC ACT ATA ggg AgA TCT ggt CgT CAT gCT TgT CAA-3'
 T7/RAN19 TMA primer:
 5'-CAA TAC gcc TgA CAT CAg CCC TTA CAg AAA gAC TTg CTC ACC CAT gAg-3'
 RIC1 Detection oligo:
 5'-GCA ATT AAC CCT CAC TAA AGG GAg CgA ATg TTA ggg CAC ACT CAT ggg TgA gCA AgT C-3'
 RIC1 top oligo:
 5'-TCT ggt CgT CAT gCT TgT CAA TAC gcc TgA CAT CAg CCC TTA CAg AAA gAC TTg CTC ACC CAT g-3'
 RIC1 bottom oligo:

RIC 1

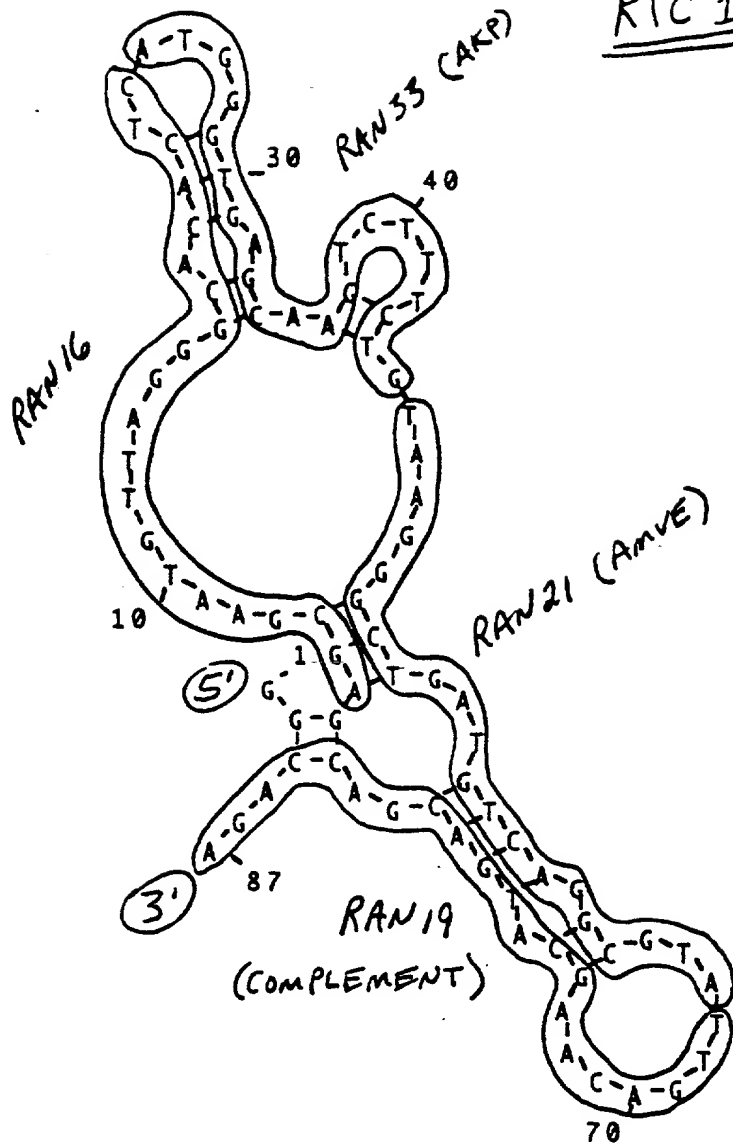


FIG.25

Random Internal Control 2

5' - CAGTAGAGGTAGGGCTGCTAGGAGTATAACAGAAAGCCAGTGTACGGAACGACTCAGCACGGCGAATACCTTTGCTACCCAGACCTAGAGGAGTGCCT-3'
 3' - GTCATCTCCATCCCGACGATCCTCATATTGTCCTTCGGTCCACATGCCCTGCTGAGTCGTGCCGCTTATGAAACGATGCTCTGATCTCCTCAGCA-5'

RAN51 TMA primer 5' - CAGTAGAGGTAGGGCTGCTAGGAGT-3'

5' - ACGACTCAGCACGGCGAATAC-3' RAN32 AKP-probe

TARGET -----> 5' - CAGTAGAGGTAGGGCTGCTAGGAGTATAACAGAAAGCCAGTGTACGGAACGACTCAGCACGGCGAATACCTTTGCTACCCAGACCTAGAGGAGTGCCT-3'

RAN27 AMVE-probe 5' - TAACAGAAAGCCAGTGTACGGA-3'

3' - ACGATGGTCTGATCTCCTCAGCA

AgAGGGATATCAGTCAGCATAATTTAA-5'
 (T7 promoter / RAN39 primer)

(T3 promoter)

5' - GCATTAACCTCAGTAAAGGCGAGTAGAGGTAGGGCTGCTAGGAGTATAACAGAAAGCCAGTGTAC-3'

3' - GTCCTTCGGTCACATGCCCTTGTGAGTCGTGCCGCTTATGAAACGATGCTGTGATCTCCTCAGCA-

OLIGOS TO ORDER:

RAN51 TMA primer:

5' - CAG TAG AGG TAG ggg CTg CTA gga gT-3'

RAN27 AMVE-probe:

5' - aminolink-TAA CAG AAG CCA gTg TAC gga-3'

RAN32 AKP-probe:

5' - aminolink-ACg ACT CAG CAC ggc gAA TAC-3'

T7 / RAN39 primer:

5' - AAT TTA ATA Cga CTC ACT ATA ggg AgA ACg CAC TCC TCT Agg TCT ggt AgC A-3'

RIC2 Detection oligo:

5' - AAg TAT TCG CCG TgC TgA gTC gTT CCG TAC ACT ggc TTC Tgt TAT AC-3'

IC2 Top oligo:

5' - GCA ATT AAC CCT CAC TAA AGG GCA gTA gAg gTA ggg gCT gCT Agg AgT ATA ACA gAA gCC AgT gTA C-3'

RIC2 Bottom oligo:

5' - ACg CAC TCC TCT Agg TCT ggt AgC AAA gTA TTC gCC gTg CTg AgT Cgt TCC gTA CAC Tgg CTT CTg-3'

RIC 2

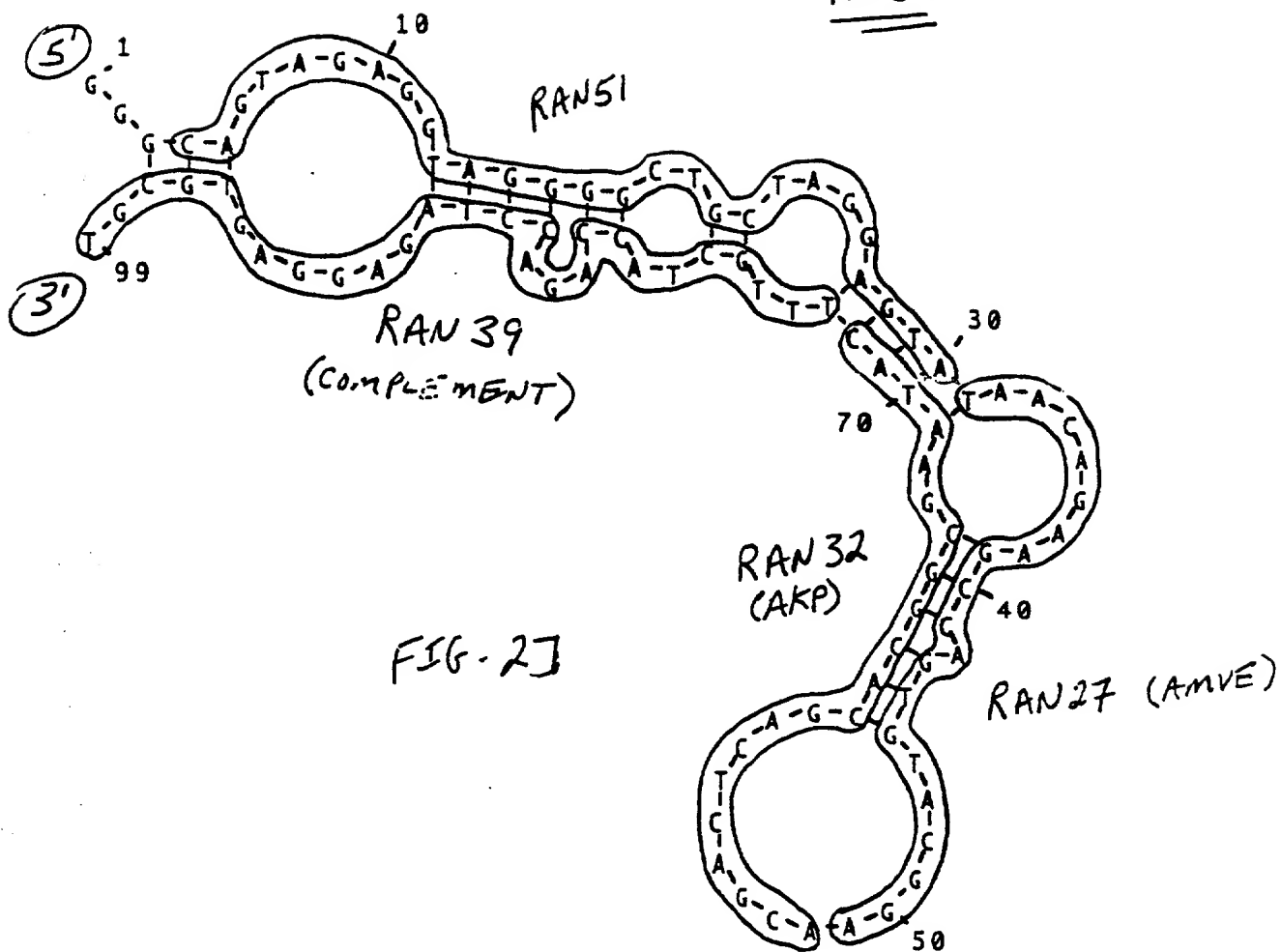


FIG. 2

Detection of RIC1 DNA Oligo Targets

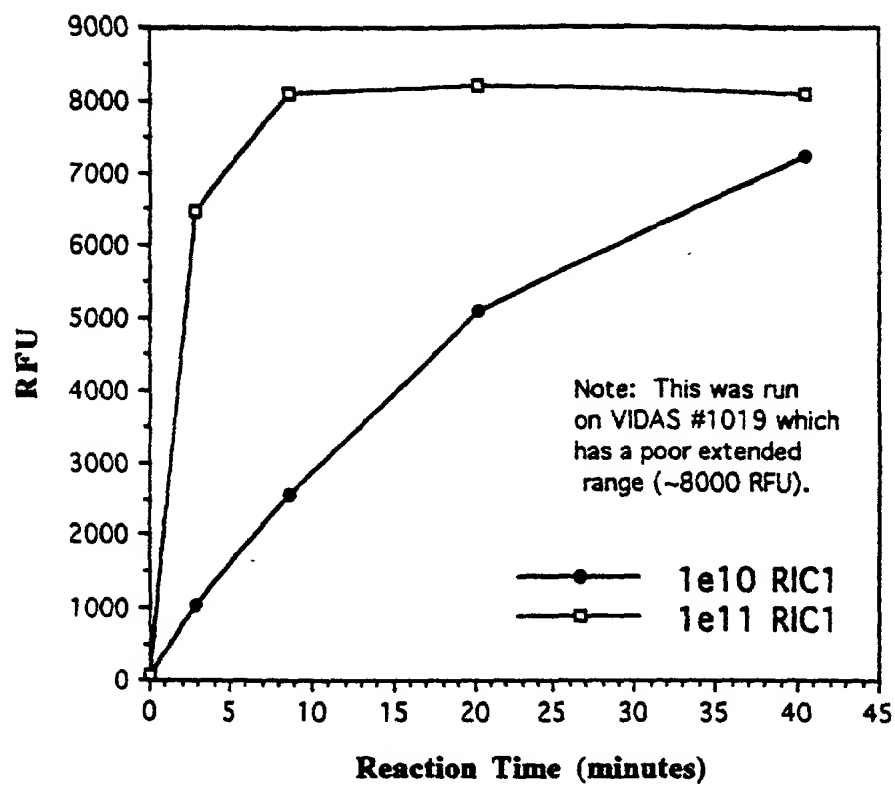


FIG. 28

